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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re U.S. Patent No. 7,023,820 ) Serial No. 09/751,014  
Inventor(s): Hemant M. Chaskar ) Filed: December 28, 2000  
Issue Date: April 4, 2006 ) Attorney Docket No. 005288.00001

For: METHOD AND APPARATUS FOR COMMUNICATING DATA IN A GPRS NETWORK  
BASED ON A PLURALITY OF TRAFFIC CLASSES

**REQUEST FOR CERTIFICATE OF CORRECTION**

U.S. Patent and Trademark Office  
Customer Service Window  
Randolph Building, Mail Stop: Certificate of Correction Branch  
401 Dulany Street  
Alexandria, VA 22314

Certificate  
JUN 23 2006  
of Correction

Sir:

Pursuant to 35 U.S.C. § 254 and 37 C.F.R. § 1.322, this is a request for the issuance of a Certificate of Correction in the above-identified patent. Two (2) copies of PTO Form 1050 are appended. The complete Certificate of Correction involves 1 page.

The mistakes identified in the appended Form occurred through no fault of the Applicant, as clearly disclosed by the records of the application, which matured into this patent. Enclosed for your convenience is a copy of the Notice of Allowance with the Examiner's Amendment.

Issuance of the Certificate of Correction containing the corrections is respectfully requested. Since these changes are necessitated through no fault of the Applicant, no fee is believed to be associated with this request. Nonetheless, should the Patent and Trademark Office determine that a fee is required, please charge our Deposit Account No. 19-0733.

Respectfully submitted,

BANNER & WITCOFF, LTD.

Dated: June 21, 2006

1001 G Street, N.W. (11th Fl.)  
Washington, D.C. 20001

By: J. M. Fleming  
John M. Fleming  
Registration No. 56,536

JUN 23 2006

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO.: 7,023,820  
DATED: June 21, 2006  
INVENTOR(S): Hemant M. Chaskar

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Claims:

Claim 12, Column 12, line 9-10:  
Please replace "correspond and bacground" with --corresponds--

Claim 12, Column 12, line 13:  
Please replace "correspond" with --corresponds--

Claim 14, Column 12, line 41-42:  
Please replace "correspond and background" with --corresponds--

Claim 14, Column 12, line 45:  
Please replace "correspond" with --corresponds--

Mailing Address of Sender:

Banner & Witcoff, Ltd.  
11th Floor  
1001 G Street, N.W.  
Washington, DC 20001-4597

FORM PTO 1050 (Rev.2-93)

U.S. PAT. NO 7,023,820

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2006

UNITED STATES PATENT AND TRADEMARK OFFICE  
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DATED: June 21, 2006  
INVENTOR(S): Hemant M. Chaskar

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United States Patent and Trademark Office  
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## NOTICE OF ALLOWANCE AND FEE(S) DUE

BANNER & WITCOFF, LTD.  
1001 G STREET, NW  
11TH FLOOR  
WASHINGTON, DC 20001-4597

7590

11/07/2005

RECEIVED

NOV 09 2005

BANNER WITCOFF

EXAMINER

MOORE, IAN N

ART UNIT

PAPER NUMBER

2661

DATE MAILED: 11/07/2005

11/7/05 lcz

005288.00001

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/751,014	12/28/2000	Hemant M. Chaskar	0956460405288.00001	6181

TITLE OF INVENTION: METHOD AND APPARATUS FOR COMMUNICATING DATA BASED ON A PLURALITY OF TRAFFIC CLASSES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$300	\$1700	02/07/2006

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN **THREE MONTHS** FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

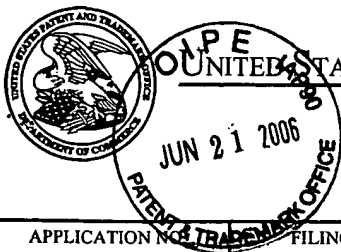
A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER:** Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/751,014	12/28/2000	Hemant M. Chaskar	0956460405288.00001	6181
7590 11/07/2005				
BANNER & WITCOFF, LTD. 1001 G STREET, NW 11TH FLOOR WASHINGTON, DC 20001-4597		EXAMINER MOORE, LAN N		
		ART UNIT 2661		
PAPER NUMBER				
DATE MAILED: 11/07/2005				

**Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**  
(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 686 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 686 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571) 272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



# Notice of Allowability

Application No.

09/751,014

Examiner

Ian N. Moore

Applicant(s)

CHASKAR, HEMANT M.

Art Unit

2661

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8-4-2005.
2. ☒ The allowed claim(s) is/are 1-5, 9-11, 13-15, 18, 20, 21 which have been renumbered as 1-14.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 8-4-05
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 10-31-05.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

*Chau T. Nguyen*  
**CHAU NGUYEN**  
**SUPERVISORY PATENT EXAMINER**  
**TECHNOLOGY CENTER 2600**

## DETAILED ACTION

### *Drawings*

1. The drawings were received on 12-28-2000. These drawings are accepted by the examiner.

## EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with John M. Fleming on October 31, 2005.

The application has been amended as follows:

- Claim 1, line 17, "**wherein the step of routing further comprises:**

**transmitting, by the ingress GSN, the labeled data to one of the plurality of intermediate nodes;**

**handling, by the one of the plurality of intermediate nodes, the labeled data based on the traffic class,**

**wherein each of the plurality of traffic classes has a unique correspondence to one of a plurality of per-hop behavior (PHB) groups, further comprising a step of assigning, by the ingress GSN, a PHB group of the plurality of PHB groups to the labeled data based on the traffic class,**

Art Unit: 2661

**wherein the step of handling further comprises handling the labeled data according to the per-hop behavior group assigned to the labeled data,**

**wherein the plurality of traffic classes comprises conversational, streaming, interactive and background traffic classes, and wherein the conversational class corresponds to an Expedited Forwarding PHB group, the streaming class corresponds to a First Assured Forwarding (AF1) PHB group, the interactive class corresponds to a Second Assured Forwarding (AF2) PHB group and the background class corresponds to a Third Assured Forwarding (AF3) PHB group” has been inserted after “the first delay-differentiated path”**

- **Claims 6-8 are canceled.**
- **Claim 9, line 1, “claim 7” has been replaced with -- claim 1- -**
- **Claim 10, line 20, “, wherein the plurality of traffic classes comprises conversational, streaming, interactive and background traffic classes, and wherein the conversational class corresponds to an Expedited Forwarding PHB group, the streaming class corresponds to a First Assured Forwarding (AF1) PHB group, the interactive class corresponds to a Second Assured Forwarding (AF2) PHB group and the background class corresponds to a Third Assured Forwarding (AF3) PHB group” has been inserted after “the PHB group”.**
- **Claim 12 is canceled.**
- **Claim 18, line 13, “, wherein an ingress GSN routes to an egress GSN, the data through a first delay-differentiated path of the plurality of delay-differentiated paths based on correspondence of the PHB group to the first delay-differentiated path, and**



Art Unit: 2661

wherein the plurality of traffic classes comprises conversational, streaming, interactive and background traffic classes, and wherein the conversational class corresponds to an Expedited Forwarding PHB group, the streaming class corresponds to a First Assured Forwarding (AF1) PHB group, the interactive class corresponds to a Second Assured Forwarding (AF2) PHB group and the background class corresponds to a Third Assured Forwarding (AF3) PHB group ” has been inserted after “the PHB group”

- Claim 19 is canceled.
- Claim 21, line 7, “and” have been removed after “to provide labeled data;”
- Claim 21, line 9, “, handling the portion of the data based on a per-hop behavior (PHB) group, and

wherein the plurality of traffic classes comprises conversational, streaming, interactive and background traffic classes, and wherein the conversational class corresponds to an Expedited Forwarding PHB group, the streaming class corresponds to a First Assured Forwarding (AF1) PHB group, the interactive class corresponds to a Second Assured Forwarding (AF2) PHB group and the background class corresponds to a Third Assured Forwarding (AF3) PHB group” has been inserted after “the one delay-differential path”

#### *Response to Arguments*

3. Applicant’s arguments, see pages 7-11, filed 8/4/2005, with respect to amended claims 1-5,9-11,13-15,18,20 and 21 have been fully considered and are persuasive. The rejections of claims 1-5,9-11,13-15,18,20 and 21 have been withdrawn.

JAN 10 2006

Art Unit: 2661

*Allowable Subject Matter*

4. Claims 1-5,9-11,13-15,18,20 and 21 are allowed.

*Conclusion*

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ian N. Moore whose telephone number is 571-272-3085. The examiner can normally be reached on 9:00 AM- 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau Nguyen can be reached on 571-272-3126. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

INM  
10/31/05

JMM



CHAU NGUYEN  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600